REC'S 5/28/09

Form C-144 July 21, 2008

District 1
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

Volume:

Tank Construction material:

Liner type: Thickness

Alternative Method:

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or												
Proposed Alternative Method Permit or Closure Plan Application												
Type of action:  Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,												
below-grade tank, or proposed alternative method												
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request												
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances												
Operator: BOPCO, L.P.	OGRID #: 001801											
Address: P.O. Box 2760 Midland, TX 79702												
Facility or well name: Big Eddy Unit #162												
API Number: 30-015-36020	OCD Permit Number:											
U/L or Qtr/Qtr SWNE Section 7 Tow	wnship 21S Range 29E County: EDDY											
Center of Proposed Design: Latitude N 32.495778	Longitude W 104.022056 NAD: ☐1927 ☑ 1983											
Surface Owner 🛛 Federal 🗌 State 🗌 Private 🗍 Tribal T	Γrust or Indian Allotment											
2. ✓ Pit: Subsection F or G of 19 15.17 11 NMAC												
Temporary: ☑ Drilling ☐ Workover												
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A												
☑ Lined ☐ Unlined Liner type Thickness	mil 🛮 LLDPE 🗌 HDPE 🔲 PVC 🔲 Other											
☐ String-Reinforced												
Liner Seams: 🗵 Welded 🗌 Factory 🗍 Other	Volume: bbl Dimensions: L x W x D											
3. Closed-loop System: Subsection H of 19.15.17.11 NM	MAC											
	Vorkover or Drilling (Applies to activities which require prior approval of a permit or notice of											
Drying Pad  Above Ground Steel Tanks  Haul-	off Bins  Other											
☐ Lined ☐ Unlined Liner type: Thickness	mil LLDPE HDPE PVC Other											
Liner Seams   Welded   Factory   Other												
4. Below-grade tank: Subsection I of 19.15.17.11 NMA	AC											

Final Closure JATE 1/19/09 Oil Conservation Division

bbl Type of fluid:

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

mil 🗌 HDPE 🗎 PVC 🔲 Other

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Page Lof 5

	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	hospital, .
	Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
	<ul> <li>8.</li> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li>☑ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>☑ Signed in compliance with 19.15.3.103 NMAC</li> </ul>	
] }	Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
	Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce, material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	ppriate district approval.
•	Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
	Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
	Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
1	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
	Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
	<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
	Within a 100-year floodplain FEMA map	☐ Yes ☐ No

1	Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
)	attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
)	☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
•	Previously Approved Design (attach copy of design) API Number: or Permit Number:
	12.  Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
)	attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
•	Previously Approved Design (attach copy of design) API Number:
l	Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that
!	use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)  13.
	Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
-	☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan
	☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
	Proposed Closure: 19.15.17.13 NMAC
	Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Closed-loop System
	Alternative  Proposed Closure Method: Waste Excavation and Removal  Waste Removal (Closed-loop systems only)
	On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial
	Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  15.
	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
	Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

	Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	
,	Disposal Facility Name: Disposal Facility Permit Number:	
	Disposal Facility Name: Disposal Facility Permit Number:	
	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No	vice and operations?
!	Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С
	Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justidemonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	trict office or may be
	Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
	Ground water is between 50 and 100 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
	Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
	Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
	Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
	Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
ĺ	Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No
	On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Críteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	15.17.11 NMAC

19.	
Operator Application Certification:  I hereby certify that the information submitted with this application is true	e, accurate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
20.  OCD Approval: ☐ Permit Application (including closure plan) ☐ Clo	osure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
	prior to implementing any closure activities and submitting the closure report.  ays of the completion of the closure activities. Please do not complete this  d the closure activities have been completed.
	☑ Closure Completion Date:
22.  Closure Method:  Waste Excavation and Removal On-Site Closure Method  If different from approved plan, please explain.	Alternative Closure Method
Instructions: Please indentify the facility or facilities for where the liquitwo facilities were utilized.	systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: ids, drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performe  Yes (If yes, please demonstrate compliance to the items below)	
Required for impacted areas which will not be used for future service and  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	operations:
mark in the box, that the documents are attached.  ✓ Proof of Closure Notice (surface owner and division)  ✓ Proof of Deed Notice (required for on-site closure)  ✓ Plot Plan (for on-site closures and temporary pits)  ✓ Confirmation Sampling Analytical Results (if applicable)  ✓ Waste Material Sampling Analytical Results (required for on-site closures)  ✓ Disposal Facility Name and Permit Number  ✓ Soil Backfilling and Cover Installation  ✓ Re-vegetation Application Rates and Seeding Technique  ✓ Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude	Longitude NAD: 1927 1983
	losure report is true, accurate and complete to the best of my knowledge and equirements and conditions specified in the approved closure plan.
Name (Print): Annette Childers	Title: Administrative Assitant
Signature: Carrette Childre	Date: 2 - 0-09
e-mail address: machilders@hasspet.com	Telephone: (432) 683-2277

Accepted for record NMOCD

MAY 29 2009

MAY 28 2009

# Waste Excavation and Removal Closure Plan

BOPCO, L.P. Big Eddy Unit #162 Section 7, T-21-S, R-29-E Eddy County, New Mexico



### SPORT ENVIRONMENTAL SERVICES, PLLC

502 N. Big Spring Street, Midland, Texas 79701 Business: 432.683.1100 Fax: 888.500.0622

May 14, 2009

Mr. Mike Bratcher State of New Mexico Oil Conservation Division 1301 W. Grand Artesia, NM 88210

Re: Waste Excavation and Removal Closure Report BOPCO, L.P., Big Eddy Unit #162 Section 7, T-21-S, R-29-E Eddy County, New Mexico

Dear Mr. Bratcher,

On behalf of BOPCO, L.P., Sport Environmental Services is providing the enclosed "Waste Excavation and Removal Closure" report and C-144 closure form for BOPCO, L.P.'s Big Eddy Unit #162 pit location. The company has undergone a name change since the time of pit closure, explaining the previous use of BEPCO, L.P. throughout previously filed and attached documents.

In an effort to fully delineate the pit location both horizontally and vertically, extensive soil investigation was conducted. Attached please find a site plan denoting sample locations along with the associated analytical results. Each soil sample was analyzed for **Total Petroleum Hydrocarbons** (C<sub>6</sub>-C<sub>12</sub> Gasoline Range Hydrocarbons or GRO; C<sub>12</sub>-C<sub>18</sub> Diesel Range Hydrocarbons or DRO; C<sub>28</sub>-C<sub>35</sub> Oil Range Hydrocarbons; and Total TPH) using Methods 418.1 and 8015M, **Chlorides (Cl)** EPA Method 300/300.1, and **Total BTEX** (Benzene; Toluene; Ethylbenzene; m,p-Xylene; o-Xylene, Total Xylenes, and total BTEX) using the Method 8021B/5030. This pit was sampled per the requirements set forth in NMAC 19.15.17.13 B(1)(b).

In summary, the TPH and Combined DRO and GRO fraction levels within all soil samples analyzed were below the regulatory limit. According to the New Mexico Oil Conservation Division and the New Mexico Office of the State Engineer iWATERS, groundwater is greater than 100 feet below ground surface (100' bgs) resulting in a soil chloride limitation of 1000 mg/kg. Analytical results demonstrate chloride levels are below the regulatory limitation.

There were a total of two rounds of delineation and confirmation sampling events, conducted on January 6, 2009 and January 13, 2009. Analytical results for each soil sample and the date the sample was determined clean are provided below and also condensed for your convenience within the attached **Sample Data Summary**. As required, email transmissions demonstrating 48-hour notification of sampling events and equipment mobilization are available upon request.

Sample location	Sample ID	Chloride Level	"Clean" Date
North Pit Wall	NEW-001 Composite	258 mg/kg	January 6, 2009
East Pit Wall	EEW-001	126 mg/kg	January 6, 2000
Last I it wan	Composite	120 Hg/ kg	January 6, 2009
South Pit Wall	SEW-001	21.6 mg/kg	January 13, 2009
Boddii i it wan	Composite	21.0 mg/ kg	January 13, 2007
West Pit Wall	WEW-001 Composite	44.7mg/kg	January 6, 2009
Pit Floor	NWF-001	307 mg/kg	January 6, 2009
TITTOOL	NCF-001	190 mg/kg	January 6, 2009
	NEF-001	287 mg/kg	January 6, 2009
	ECF-001	184 mg/kg	January 6, 2009
	SEF-001	861 mg/kg	January 6, 2009
	CEF-001	124 mg/kg	January 6, 2009
	CWF-001	261 mg/kg	January 6, 2009
	SWF-002	ND	January 6, 2009
	WCF-001	152 mg/kg	January 6, 2009
	CENTER-001	34.2 mg/kg	January 6, 2009

Big D Environmental performed excavation and removal activities associated with the pit waste material. All excavated waste was disposed of off-site at a NMOCD permitted and approved facility, Controlled Recovery Inc. (Permit #R-9166). Waste manifesting documentation is maintained by Big D Environmental. The area was subsequently backfilled with unimpacted caliche and a two foot layer of topsoil.

During the reclamation phase of the pit closure, the site was reclaimed to a natural condition that blends with the surrounding topography; involving restoring the original landform or creating a landform that approximates and blends in with the surrounding landform. Disturbed areas will be re-vegetated to native species, controlling erosion, controlling invasive non-native plants and noxious weeds. A soil cover design consisting of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater has been provided. The soil cover was constructed to mimic the existing grade and prevent ponding of water and crosson of the cover material.

broadcast method. When broadcasting the seed, the pounds per acre will be doubled. As required by NMAC 19.15.17.13(I)(2), successful reclamation is considered to be 70% re-growth of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons, that prove viability, there will be no artificial irrigation of the vegetation. Repeat seeding or planting will occur, until required vegetation coverage is successfully achieved. Evaluation of growth will not be made before completion of at least one full growing season after seeding. Photographs of existing vegetation were taken prior to constructing the drilling pit location, as a tool to confirm re-growth of 70% native vegetative coverage.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (Sporobolus cryptandrus) Sand love grass (Eragrostis trichodes)	1.0 1.0
Plains bristlegrass (Setaria macrostachya)	2.0

<sup>\*</sup>Pounds of pure live seed:

Pounds of seed X percent purity X percent germination = pounds pure life seed

Enclosed you will find that the requirements set forth with the Waste Excavation and removal closure plan checklist denoted with in Box 15 of the Form C-144 for Pit Closures have been addressed herein. This closure report includes protocols and procedures

If you have any questions or comments with regard to this matter, please contact me at my office (432.683.1100) or on my cell (432.553.8555). I would be more than happy to review these results with you.

Sincerely,

THE S. MORK

Debi Sport Moore, M.E., R.E.P.A. President

Enclosures: 2 Waste Excavation and Removal Closure Reports

Cc: Mr. William R. Dannels
C.K. "Buddy" Jenkins
BOPCO, L.P.
dba Bass Enterprises Production Co.
P.O. Box 2760
Midland, TX 79702

BOPCO, L.P.
Big Eddy Unit #162
Section 7, T-21-S, R-29-E
Eddy County-New Mexico

# Form C-144 Pit Closure and Form 3160-5 BLM Sundry Notice Big Eddy Unit #162



### The Oilfield Waste Disposal Experts.<sup>sw</sup>



### **Disposal Facility Name**

**Controlled Recovery, Inc** 

**Permit Number** 

R-9166

Form 3160-5 (April 2004)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

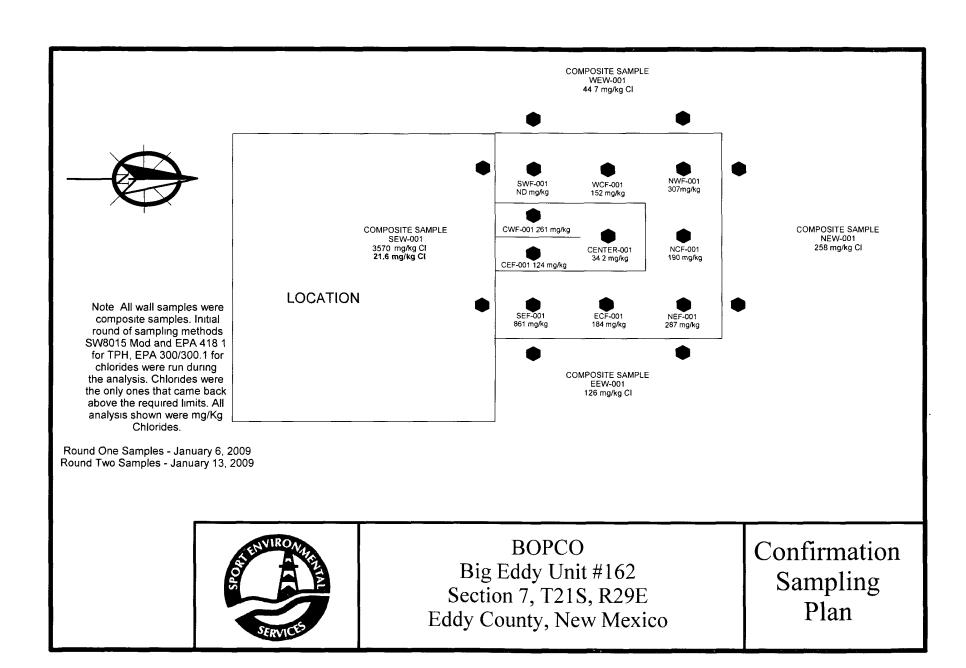
FORM APPROVED OM B No 1004-0137 Expires: March 31, 2007

SUNDRY	NOTICES AND REF	PORTS ON WE	118	o. Lease Seria NMLC (	
Do not use th	nis form for proposals t ell. Use Form 3160-3 (	o drill or to re-	enter an	6. If Indian,	Allottee or Tribe Name
SUBMIT IN TR	IPLICATE- Other insti	ructions on reve	rse side.	7. If Unit or	CA/Agreement, Name and/or No.
1. Type of Well Oil Well □ □	Gas Well□□ Other			8. Well Nan	ne and No
2. Name of Operator BOPCO, L.F				Big Edd	y Unit #162
3a. Address	•	3b. Phone No. (include	e area code)	9. API We 30-015-	
P.O. BOX 2760 Midland, TX 7	9702	432-683-2277			Pool, or Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)				Lane; (Morrow) Field or Parish, State
SWNE , SEC 7 T21S R29E , I	AT N32.495778 DEG, LONG	W104.022056			COUNTY, NM
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE NATUR	LE OF NOTICE,	REPORT, OR	OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION		
If the proposal is to deepen dire Attach the Bond under which the following completion of the intesting has been completed. Fit determined that the site is ready	ectionally or recomplete horizontall the work will be performed or proviously of the operations. If the operation and Abandonment Notices shall be for final inspection.)	y, give subsurface location de the Bond No. on file versults in a multiple complified only after all require	ns and measured and t with BLM/BIA. Requ eletion or recompletion ments, including recla	Abandon any proposed wo rue vertical depth ired subsequent re in a new interval mation, have beer	, a Form 3160-4 shall be filed once completed, and the operator has
14. I hereby certify that the fore Name (Printed/Typed)  Amette Ch	going is true and correct	Title	Administra	tive Assis	taut
THINK T	THIS SPACE FOR I	` <u> </u>	TATE OFFICE	E IISE	
	- THOU AGE TON		TATE OF 10		
Approved by			itle	D	ate
Conditions of approval, if any, are certify that the applicant holds lega which would entitle the applicant to	or equitable title to those rights in	Aller Characterists	Office		
Title 18 U.S.C. Section 1001 and Title States any false, fictitious or fraudul	e 43 U.S.C Section 1212, make it a lent statements or representations	crime for any person kas to any matter within it	nowingly and willfull s jurisdiction.	y to make to any	department or agency of the United

BOPCO, L.P. Big Eddy Unit #162 Section 7. T-21-S, R-29-E Eddy County, New Mexico

### SITE PLAN DENOTING PIT CLOSURE SAMPLING LOCATIONS

Big Eddy Unit #162



BOPCO, L.P.
Big Eddy Unit #1629
Section 7: (T-21-S. R-29-E-Eddy County: New Mexico)

### SAMPLE DATA SUMMARY

Big Eddy Unit #162



## **Sample Data Summary**

p. 1 of 1

Project Name: Project Location:

BOPCO, L.P. - Big Eddy Unit #162 Eddy County, New Mexico

									(4. 15. (4. 15.		Ana	lytical	Result	s .	N . 6 6			4	
	Methods: ŞW8015 Mod (TPH), EPA 418.1 (TPH), EPA 8021B (BTEX), EPA 300 (CI)										(CI)	74.1 A							
Sample ID	Lab ID	Matrix	Sample Depth	Date Sampled	Date Received	Carbon Ranges C6-C12 (mg/kg dry)	Carbon Ranges ©12-C28	Carbon Ranges, C28_C35	Total Petroleum Hydrocarbons by SW8015 Mod	Total TPH by EPA 418.1	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)	Total Xylenes	Total BTEX	Chloride (Cl) (mg/kg wet)	%.Moisture
SWF-001	321755-001	Soil	14 ft	1/6/2009 0·00	1/7/2009 7 50	ND	ND	ND	ND	79 0	ND	ND	ND	ND	ND	ND	ND	ND	ND
CWF-001	321755-002	Soil	12 ft	1/6/2009 0:00	1/7/2009 7 50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	152	ND
NWF-001	321755-003	Soil	22 ft	1/6/2009 0:00	1/7/2009 7.50	15 6	ND	ND	15.6	ND	ND	ND	ND	ND	ND	ND	ND	307	1 03
NCF-001	321755-004	Soil	12 ft	1/6/2009 0 00	1/7/2009 7:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190	ND
NEF-001	321755-005	Soil	12 ft	1/6/2009 0 00	1/7/2009 7 50	15.1	ND	ND	15 1	ND	ND	ND	ND	ND	ND	ND	ND	287	ND
CEF-001	321755-006	Soil	12 ft	1/6/2009 0.00	1/7/2009 7 <sup>.</sup> 50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	184	ND
SEF-001	321755-007	Soil	12 ft	1/6/2009 0 00	1/7/2009 7 50	22 9	ND	ND	22.9	ND	ND	ND	ND	ND	ND	ND	ND	864	ND
WCF-001	321755-008	Soil	12 ft	1/6/2009 0:00	1/7/2009 7.50	22.6	ND	ND	22 6	ND	ND	ND	ND	ND	ND	ND	ND	266	1.88
ECF-001	321755-009	Soil	12 ft	1/6/2009 0:00	1/7/2009 7 50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	125	ND
Center-001	321755-010	Soil	12 ft	1/6/2009 0·00	1/7/2009 7:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35 6	4 01
5PT Composite	321755-011	Soil		1/6/2009 0 00	1/7/2009 7:50	15 9	15 8	ND	31 7	41 4	ND	ND	ND	ND	ND	ND	ND	658	0 765
EEW-001	321755-012	Soil	6 ft	1/6/2009 0·00	1/7/2009 7·50	ND	ND	ND	ND	67 5	ND	ND	ND	ND	ND	ND	ND	127	ND
SEW-001	321755-013	Soil	6 ft	1/6/2009 0 00	1/7/2009 7:50	ND	67.3	ND	67 3	157	ND	ND	ND	ND	ND	ND	ND	3590	ND
NEW-001	321755-014	Soil	6 ft	1/6/2009 0 00	1/7/2009 7:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	259	ND
WEW-001	321755-015	Soil	6 ft	1/6/2009 0·00	1/7/2009 7:50	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	44 9	ND

# Sample Data Summary

Project Name: Project Location:

BOPCO, L.P. - Big Eddy Unit #162 Eddy County, New Mexico

Analytical Results

	ejinisioM %									
	Chloride (Cl) (mg/kg wet)	21.6								
	Xylene (o) Total Xylenes  Total Xylenes  (Cl) (mg/kg wet)									
300 (CI)	Total, Xylenes									
X), EPA	Xylene (o)									
21B (BT	Xylene (p/m)									
), EPA 80	Total Hydrocarbons. Toluene Toluene									
Aod (TPH	oluene									
Methods: SW8015 Mod (TPH), EPA 8021B (BTEX), EPA 300 (CI)	əuəzuəg									
ethods: S	Total Hydrocarbons			8		ř				
ž	Carbon Ranges C28-C35									
	Carbon Ranges C12-C28		1					 _		
	Carbon Ranges C6-C12 (mg/kg dny)									
	Date Received	1/14/2009 8 05								
	Date: Sampled	1/13/2009 0 00								
	Sample, Depth	6 ft								
	Watrix	Soil								
İ	Qi qe 1	322379-001								
İ	Sample	SEW-002								

BOPCO, L.P. Big Eddy Unit #162 Section 7, T-21-S, R-29-E Eddy County, New Mexico

# ANALYTICAL RESULTS XENCO LABORATORIES

Big Eddy Unit #162

### **Analytical Report 322379**

for

### Sport Environmental Services, PLLC

Project Manager: Debi Smith

BOPCO, L.P.

Big Eddy Unit #162

15-JAN-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





15-JAN-09

Project Manager: **Debi Smith Sport Environmental Services, PLLC**502 North Big Spring Street
Midland, TX 79701

Reference: XENCO Report No: 322379

**BOPCO, L.P.** Project Address:

### Debi Smith:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 322379. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 322379 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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### **Sample Cross Reference 322379**



# Sport Environmental Services, PLLC, Midland, TX BOPCO, L.P.

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SEW-002	S	Jan-13-09 00:00	6 ft	322379-001



**Project Location:** 

### Certificate of Analysis Summary 322379

Sport Environmental Services, PLLC, Midland, TX

Project Name: BOPCO, L.P.

**inelad** 

Project Id: Big Eddy Unit #162

Contact: Debi Smith

Date Received in Lab: Wed Jan-14-09 08 05 am

Report Date: 15-JAN-09
Project Manager: Brent Barron, II

				i rojeci wianager.	Diene Darron, II	
	Lab Id:	322379-001				
Analysis Paguastad	Field Id:	SEW-002				
Analysis Requested  Anions by EPA 300  Chloride	Depth:	6- ft				
	Matrix:	SOIL				
	Sampled:	Jan-13-09 00 00				
Anions by EPA 300	Extracted:					
	Analyzed:	Jan-14-09 09 46				
	Units/RL:	mg/kg RL				
Chloride		216 517				
Percent Moisture	Extracted:					
2 02 00 27 20 20 20 20 20 20 20 20 20 20 20 20 20	Analyzed:	Jan-14-09 09 00		!		
	Units/RL:	% RL				
Percent Moisture		3 24				

This analytical report, and the entire data package it represents has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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### **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Outside XENCO's scope of NELAC Accreditation.

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	Phone	Fax
4143 Greenbriar Dr. Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd., Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



### **Blank Spike Recovery**



Project Name: BOPCO, L.P.

Work Order #: 322379 Project ID: Big Eddy Unit #162

Lab Batch #: 746448Sample: 746448-1-BKSMatrix: SolidDate Analyzed: 01/14/2009Date Prepared: 01/14/2009Analyst: LATCO

Date Analyzed: 01/14/2009 Date Prepared: 01/14/2009 Analyst: LATCOR

Reporting Units: mg/kg Batch #: 1 BLANK/BLANK SPIKE RECOVERY STUDY

Keporting Omes. hig/kg	aten#: 1	DLANK/DLANK SFIRE RECOVERT STU								
Anions by EPA 300	Blank Result	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags				
Analytes	[A]	[B]	[C]	[D]	/0 K					
Chloride	ND	10 0	10 1	101	90-110					



### Form 3 - MS Recoveries

Project Name: BOPCO, L.P.



**Work Order #:** 322379

Lab Batch #: 746448 Project ID: Big Eddy Unit #162

Date Analyzed: 01/14/2009 Date Prepared: 01/14/2009 Analyst: LATCOR

QC- Sample ID: 322379-001 S Batch #: 1 Matrix: Soil

Reporting Units: mg/kg	MATI	MATRIX / MATRIX SPIKE RECOVERY STUDY									
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride	21 6	103	128	103	80-120						

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference [E] = 200\*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes



### **Sample Duplicate Recovery**



Project Name: BOPCO, L.P.

**Work Order #:** 322379

Lab Batch #: 746448 Project ID: Big Eddy Unit #162

 Date Analyzed: 01/14/2009
 Date Prepared: 01/14/2009
 O1/14/2009
 Analyst: LATCOR

 QC- Sample ID: 322379-001 D
 Batch #: 1
 Matrix: Soil

Reporting Units: mg/kg	SAMPLE A	SAMPLE / SAMPLE DUPLICATE RECOVERY									
Anions by EPA 300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag						
Analyte		[B]									
Chloride	216	20 8	4	20							

Lab Batch #: 746468

 Date Analyzed: 01/14/2009
 Date Prepared: 01/14/2009
 01/14/2009
 Analyst: BEV

 QC- Sample ID: 322379-001 D
 Batch #: 1
 Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE/SAMPLE DUPLICATE RECOVERY								
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag					
Analyte		[B]								
Percent Moisture	3 24	2 72	17	20						

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes

CHAMN OF CUSTODY RECORD AND ANALYSIS RECUEST  Tax No	
beigmed sistal	***************************************
Alded Britishige And Angel And Angel	A M
Project Manager  Company Name  Company Address  City/State/Zip  Telephone No Sampler Signature  Telephone No Sampler Signature  FIELD CODE   14.00 114.09	

### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client Sport Environmental				
Date/ Time 01-14-04 @ 08:65				
Lab ID# 322379				
Initials, JMF				
initials. SMF				
Sample Receip	t Checklist			
				ent Initials
#1 Temperature of container/ cooler?	(₹es)	No	6.0 °C	
#2 Shipping container in good condition?	Yes	No_	(NA)	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present ( A	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	(D written on Contaction	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containers supplied by ELOT?	(Yes	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	Yes)	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Variance Doc	umentation			
Contact. Contacted by			Date/ Time:	
Regarding				
Corrective Action Taken				
	***************************************			
Check all that Apply:  See attached e-mail/ fax Client understands and wo Cooling process had begu			•	

### **Analytical Report 321755**

for

### **Sport Environmental Services, PLLC**

Project Manager: Debi Smith

**BEPCO** 

**Big Eddy Unit 162** 

20-JAN-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





20-JAN-09

Project Manager: Debi Smith

Sport Environmental Services, PLLC

502 North Big Spring Street

Midland, TX 79701

Reference: XENCO Report No: 321755

**BEPCO**Project Address:

### Debi Smith:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 321755. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

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We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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### **Sample Cross Reference 321755**



# Sport Environmental Services, PLLC, Midland, TX BEPCO

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SWF-001	S	Jan-06-09 00:00	14 ft	321755-001
CWF-001	S	Jan-06-09 00:00	12 ft	321755-002
NWF-001	S	Jan-06-09 00:00	22 ft	321755-003
NCF-001	S	Jan-06-09 00:00	12 ft	321755-004
NEF-001	S	Jan-06-09 00:00	12 ft	321755-005
CEF-001	S	Jan-06-09 00:00	12 ft	321755-006
SEF-001	S	Jan-06-09 00:00	12 ft	321755-007
WCF-001	S	Jan-06-09 00:00	12 ft	321755-008
ECF-001	S	Jan-06-09 00:00	12 ft	321755-009
Center-001	S	Jan-06-09 00:00	12 ft	321755-010
5PT Composite	S	Jan-06-09 00:00		321755-011
EEW-001	S	Jan-06-09 00:00	6 ft	321755-012
SEW-001	S	Jan-06-09 00:00	6 ft	321755-013
NEW-001	S	Jan-06-09 00:00	6 ft	321755-014
WEW-001	S	Jan-06-09 00:00	6 ft	321755-015



Sport Environmental Services, PLLC, Midland, TX

**Project Name: BEPCO** 

nelad

Project Id: Big Eddy Unit 162

Contact: Debi Smith

**Project Location:** 

Date Received in Lab: Wed Jan-07-09 07 50 am

Report Date: 20-JAN-09

								Project Ma	nager:	Brent Barron,	II		
	Lab Id:	321755-0	001	321755-0	002	321755-0	003	321755-0	004	321755-0	005	321755-	006
Analysis Requested	Field Id:	SWF-0	01	CWF-001		NWF-001		NCF-001		NEF-001		CEF-001	
Analysis Requesieu	Depth:	14 ft		12 ft	12 ft		22 ft			12 ft		12 ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-06-09	00 00	Jan-06-09 00 00		Jan-06-09 (	00 00	Jan-06-09 (	00 00	Jan-06-09	00 00	Jan-06-09	00 00
Anions by EPA 300	Extracted:												
11110110 25 21110 00	Analyzed:	Jan-07-09	17 10	Jan-07-09	17 10	Jan-07-09	17 10	Jan-07 <b>-</b> 09	17 10	Jan-07-09	17 10	Jan-07-09	17 10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5 04	152	5 03	307	101	190	5 01	287	10 0	184	5 02
BTEX by EPA 8021B	Extracted:	Jan-07-09	10 00	Jan-07-09	10 00	Jan-07-09	10 00	Jan-07-09	10 00	Jan-07-09	10 00	Jan-07-09 10 00	
DIENE BY EIN COLLE	Analyzed:	Jan-07-09 12 41		Jan-07-09	Jan-07-09 13 05		Jan-07-09 13 29		Jan-07-09 13 53		14 17	Jan-07-09 14 41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
enzene		ND	0 0010	ND	0 0010		0 0010		0 0010		0 0010	ND	0 0010
Toluene		ND	0 0020	ND	0 0020		0 0020	ND	0 0020		0 0020	ND	0 0020
Ethylbenzene			0 0010		0 0010		0 0010		0 0010		0 0010	ND	0 0010
m,p-Xylenes			0 0020		0 0020		0 0020		0 0020		0 0020	ND	0 0020
o-Xylene			0 0010		0 0010		0 0010		0 0010		0 0010	ND	0 0010
Total Xylenes			0 0020		0 0020		0 0020		0 0020		0 0020	ND	0 0020
Total BTEX		ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010
Percent Moisture	Extracted:												
	Analyzed:	Jan-07-09	14 50	Jan-07-09	14 50	Jan-07-09	14 50	Jan-07-09	14 50	Jan-07-09	14 50	Jan-07-09	14 50
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		ND	1 00	ND	1 00	1 03	1 00	ND	1 00	ND	1 00	ND	1 00
TPH By SW8015 Mod	Extracted:	Jan-07-09	09 00	Jan-07-09	09 00	Jan-07-09	09 00	Jan-07-09	09 00	Jan-07-09	09 00	Jan-08-09	12 30
•	Analyzed:	Jan-07-09	18 55	Jan-07-09	19 18	Jan-07-09	1941	Jan-07-09	20 05	Jan-07-09	20 27	Jan-08-09	17 16
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	151	ND	15 1	15 6	15 2	ND	150	15 1	15 1	ND	15 1
C12-C28 Diesel Range Hydrocarbons		ND	151	ND	15 1	ND	15 2	ND	150	ND	15 1	ND	15
C28-C35 Oil Range Hydrocarbons		ND	15 1	ND	15 1	ND	15 2	ND	150	ND	15 1	ND	15
Total TPH		ND	151	ND	15 1	15 6	15 2	ND	150	15 1	151	ND	15

This analytical report and the entire data package it represents has been made for your evclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount into oteed for this work order unless otherwise agreed to in writing

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**Project Location:** 

### Certificate of Analysis Summary 321755

Sport Environmental Services, PLLC, Midland, TX

Project Name: BEPCO

nelad

Project Id: Big Eddy Unit 162

Contact: Debi Smith

Date Received in Lab: Wed Jan-07-09 07 50 am

Report Date: 20-JAN-09

Project Manager: Brent Barron, II

								I Tojece Mia		Diene Barren,	**		
	Lab Id:	321755-00	01	321755-0	02	321755-0	03	321755-0	04	321755-0	05	321755-00	06
Analysis Banyastad	Field Id:	SWF-00	SWF-001		CWF-001		NWF-001		NCF-001		NEF-001		
Analysis Requested		14 ft	14 ft		12 ft		22 ft		12 ft		12 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-06-09 0	Jan-06-09 00 00		Jan-06-09 00 00		Jan-06-09 00 00		0 00	Jan-06-09 0	0 00	Jan-06-09 0	00 0
TPH by EPA 418.1	Extracted:										·		
1111 53 2111 11511	Analyzed:	Jan-20-09 17 01		Jan-20-09 1	Jan-20-09 14 39		Jan-20-09 14 39		Jan-20-09 14 39		Jan-20-09 14 39		4 39
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH, Total Petroleum Hydrocarbons		79 0	10 1	ND	101	ND	101	ND	100	ND	100	ND	10 0

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### Sport Environmental Services, PLLC, Midland, TX

Project Name: BEPCO

inelad:

Project Id: Big Eddy Unit 162

Contact: Debi Smith

Date Received in Lab: Wed Jan-07-09 07 50 am
Report Date: 20-JAN-09

**Project Location:** 

Project Manager: Brent Barron, II

								rrojeci wia	nager.	Brent Barron	, 11		
	Lab Id:	321755-0	007	321755-	800	321755-0	009	321755-010		321755-	011	321755-	012
Analysis Requested	Field Id:	SEF-00	1	WCF-001		ECF-00	1	Center-0	01	5PT Comp	osite	EEW-0	001
Analysis Requested	Depth:	12 ft		12 ft		12 ft		12 ft				6 ft	
	Matrix:	SOIL		SOIL	SOIL			SOIL		SOIL		SOII	Ĺ
	Sampled:	Jan-06 <b>-</b> 09 (	00 00	Jan-06-09	00 00	Jan-06-09 (	00 00	Jan-06-09	00 00	Jan-06-09	00 00	Jan-06-09	00 00
Anions by EPA 300	Extracted:								*****				
ranous by El 11 Doo	Analyzed:	Jan-07-09	17 10	Jan-07-09	17 10	Jan-07-09 1	17 10	Jan-07 <b>-</b> 09	17 10	Jan-07-09	17 10	Jan-07-09	17 10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		864	100	266	10 2	125	5 03	35 6	5 21	658	10 1	127	5 02
BTEX by EPA 8021B	Extracted:	Jan-07-09	10 00	Jan-07 <b>-</b> 09	10 00	Jan-07-09	00 00	Jan-07-09	10 00	Jan-07-09	10 00	Jan-07-09	10 00
Analyzed:		Jan-07-09	15 05	Jan-07-09	15 28	Jan-07-09 1	5 52	Jan-07-09	16 17	Jan-07-09	18 26	Jan-07-09 18 50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0 0010	ND	0 0010		0 0010		0 0010	ND	0 0010	ND	0 0010
Toluene		ND	0 0020	ND	0 0020		0 0020		0 0021	ND	0 0020	ND	0 0020
Ethylbenzene			0 0010		0 0010		0 0010		0 0010		0 0010	ND	0 0010
m,p-Xylenes			0 0020		0 0020		0 0020		0 0021		0 0020	ND	0 0020
o-Xylene			0 0010		0 0010		0 0010		0 0010	ND	0 0010	ND	0 0010
Total Xylenes			0 0020		0 0020		0 0020		0 0021		0 0020	ND	0 0020
Total BTEX		ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010
Percent Moisture	Extracted:		ļ										
	Analyzed:	Jan-07-09 I	15 00	Jan-07-09	15 00	Jan-07-09 1	5 00	Jan-07-09	10 00	Jan-07-09	15 00	Jan-07-09	15 00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		ND	1 00	1 88	1 00	ND	1 00	4 01	1 00	0 765	1 00	ND	1 00
TPH By SW8015 Mod	Extracted:	Jan-08-09	12 30	Jan-08-09	12 30	Jan-08-09 1	2 30	Jan-08-09	12 30	Jan-08-09	12 30	Jan-08-09	12 30
	Analyzed:	Jan-08-09 1	17 38	Jan-08-09	1801	Jan-08-09 18 24		Jan-08-09 18 46		Jan-08-09	19 10	Jan-08-09 19 33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		22 9	15 1	22 6	153	ND	15 1	ND	15 6	15 9	15 1	ND	15 1
C12-C28 Diesel Range Hydrocarbons		ND	15 1	ND	153	ND	15 1	ND	15 6	15 8	15 1	ND	15 1
C28-C35 Oil Range Hydrocarbons		ND	15 1	ND	15 3	ND	15 1	ND	15 6	ND	15 1	ND	15 1
Total TPH		22 9	151	22 6	153	ND	151	ND	15 6	31 7	15 1	ND	15 1

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Sport Environmental Services, PLLC, Midland, TX

Project Name: BEPCO

Project Id: Big Eddy Unit 162

Contact: Debi Smith

Date Received in Lab: Wed Jan-07-09 07 50 am

Report Date: 20-JAN-09

**Project Location:** Project Manager: Brent Barron II

					1 roject manager.	Diene Darron, n	
	Lab Id:	321755-007	321755-008	321755-009	321755-010	321755-011	321755-012
Analysis Requested	Field Id:	SEF-001	WCF-001	ECF-001	Center-001	5PT Composite	EEW-001
Anaiysis Kequesiea	Depth:	12 ft	12 ft	12 ft	12 ft		6 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-06-09 00 00	Jan-06-09 00 00	Jan-06-09 00 00	Jan-06-09 00 00	Jan-06-09 00 00	Jan-06-09 00 00
TPH by EPA 418.1	Extracted:						
2212 27 2212 12012	Analyzed:	Jan-20-09 14 39	Jan-20-09 14 39	Jan-20-09 14 39	Jan-20-09 14 39	Jan-20-09 14 39	Jan-20-09 14 39
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
TPH, Total Petroleum Hydrocarbons		ND 100	ND 102	ND 101	ND 104	414 101	67 5 10 0

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### Sport Environmental Services, PLLC, Midland, TX

Project Name: BEPCO

Project Id: Big Eddy Unit 162

Contact: Debi Smith

Date Received in Lab: Wed Jan-07-09 07 50 am

**Project Location:** 

Report Date: 20-JAN-09 Project Manager: Brent Barron, II

								Project Manager:	Diene Barron, II	
Analysis Requested	Lab Id:	321755-013		321755-014		321755-0	115			
	Field Id:	SEW-001		NEW-001		WEW-001				
	Depth:	6 ft		6 ft		6 ft				
	Matrix:	SOIL		SOIL		SOIL				
Sampled:		Jan-06-09 00 00		Jan-06-09 00 00		Jan-06-09 00 00				
Anions by EPA 300	Extracted:									
	Analyzed:	Jan-07-09 17 10		Jan-07-09 17 10		Jan-07-09 17 10				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		3590	50 2	259	5 01	44 9	5 03			
BTEX by EPA 8021B	Extracted:	Jan-07-09 10 00		Jan-07-09 10 00		Jan-07-09 10 00				
	Analyzed:	Jan-07-09 19 13		Jan-07-09 19 38		Jan-07-09 20 01				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		ND 0	0010	ND	0 0010	ND	0 0010			
Toluene		ND 0	0020	ND	0 0020	ND	0 0020			
Ethylbenzene		ND 0			0 0010		0 0010			
m,p-Xylenes		ND 0			0 0020		0 0020			
o-Xylene		ND 0 0010		ND 0 0010		ND 0 0010				
Total Xylenes		ND 0			0 0020		0 0020			
Total BTEX		ND 0	0010	ND	0 0010	ND	0 0010			
Percent Moisture	Extracted:									
	Analyzed:	Jan-07-09 15 00		Jan-07-09 15 00		Jan-07-09 15 00				
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		ND	1 00	ND	1 00	ND	1 00			
TPH By SW8015 Mod	Extracted:	Jan-08-09 12	30	Jan-08-09 1	2 30	Jan-08-09 0	9 30			
	Analyzed:	Jan-08-09 19 56		Jan-08-09 20 19		Jan-08-09 13 05				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons		ND	151	ND	150	ND	15 1			
C12-C28 Diesel Range Hydrocarbons		67 3	15 1	ND	150	ND	15 1			
C28-C35 Oil Range Hydrocarbons		ND	15 1	ND	150	ND	15 1			
Total TPH		67 3	151	ND	150	ND	15 1			

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#### Certificate of Analysis Summary 321755

Sport Environmental Services, PLLC, Midland, TX

Project Name: BEPCO



Project Id: Big Eddy Unit 162

Contact: Debi Smith

Date Received in Lab: Wed Jan-07-09 07 50 am

Report Date: 20-JAN-09

Project Location:

				Project Manager: Brent Barron, II
	Lab Id:	321755-013	321755-014	321755-015
Analysis Requested	Field Id:	SEW-001	NEW-001	WEW-001
Anaiysis Kequesiea	Depth:	6 ft	6 ft	6 ft
	Matrix:	SOIL	SOIL	SOIL
	Sampled:	Jan-06-09 00 00	Jan-06-09 00 00	Jan-06-09 00 00
TPH by EPA 418.1	Extracted:			
	Analyzed:	Jan-20-09 14 39	Jan-20-09 14 39	Jan-20-09 14 39
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL
TPH, Total Petroleum Hydrocarbons		157 100	ND 100	ND 101

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Brent Barron Odessa Laboratory Director



#### **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Project Name: BEPCO

Work Orders: 321755, Project ID: Big Eddy Unit 162

Lab Batch #: 745812 Sample: 321755-001 / SMP Batch: 1 Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found  A	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Dıfluorobenzene	0 0341	0 0300	114	80-120			
4-Bromofluorobenzene	0 0217	0 0300	72	80-120	**		

Lab Batch #: 745812 Sample: 321755-002 / SMP Batch: 1 Matrix: Soil

Units: mg/kg	St	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0 0340	0 0300	113	80-120		
4-Bromofluorobenzene	0 0238	0 0300	79	80-120	**	

Lab Batch #: 745812 Sample: 321755-003 / SMP Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0 0342	0 0300	114	80-120		
4-Bromofluorobenzene	0 0226	0 0300	75	80-120	**	

Lab Batch #: 745812 Sample: 321755-004 / SMP Batch: 1 Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags		
Analytes	[71]	121	[D]	, , , , ,			
1,4-Dıfluorobenzene	0 0338	0 0300	113	80-120			
4-Bromofluorobenzene	0 0228	0 0300	76	80-120	**		

Lab Batch #: 745812 Sample: 321755-005 / SMP Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0 0338	0 0300	113	80-120		
4-Bromofluorobenzene	0 0235	0 0300	78	80-120	**	

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: BEPCO** 

**Work Orders:** 321755,

**Project ID:** Big Eddy Unit 162

Lab Batch #: 745812

Sample: 321755-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[Đ]			
1,4-Dıfluorobenzene	0 0338	0 0300	113	80-120		
4-Bromofluorobenzene	0 0228	0 0300	76	80-120	**	

Lab Batch #: 745812

Sample: 321755-007 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0 0341	0 0300	114	80-120		
4-Bromofluorobenzene	0 0232	0 0300	77	80-120	**	

Lab Batch #: 745812

Sample: 321755-008 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0338	0 0300	113	80-120	
4-Bromofluorobenzene	0 0232	0 0300	77	80-120	**

Lab Batch #: 745812

Sample: 321755-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		'-'	[D]	, , , ,		
1,4-Dıfluorobenzene	0 0342	0 0300	114	80-120		
4-Bromofluorobenzene	0 0137	0.0300	46	80-120	**	

Lab Batch #: 745812

Sample: 321755-010 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes		'.	[D]				
1,4-Dıfluorobenzene	0 0339	0 0300	113	80-120			
4-Bromofluorobenzene	0 0216	0 0300	72	80-120	**		

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755,

Project ID: Big Eddy Unit 162

Lab Batch #: 745812

Sample: 321755-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	1/-1	[6]	[D]	/•••			
1,4-Dıfluorobenzene	0 0337	0 0300	112	80-120			
4-Bromofluorobenzene	0.0173	0.0300	58	80-120	**		

Lab Batch #: 745812

Sample: 321755-012 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	St	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Dıfluorobenzene	0 0339	0 0300	113	80-120			
4-Bromofluorobenzene	0 0211	0 0300	70	80-120	**		

Lab Batch #: 745812

Sample: 321755-013 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes	•		[D]				
1,4-Dıfluorobenzene	0 0341	0 0300	114	80-120			
4-Bromofluorobenzene	0 0237	0 0300	79	80-120	**		

Lab Batch #: 745812

Sample: 321755-014 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags	
	11		[D]	,,,,,		
1,4-Dıfluorobenzene	0 0352	0 0300	117	80-120		
4-Bromofluorobenzene	0 0227	0 0300	76	80-120	**	

Lab Batch #: 745812

**Sample:** 321755-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
			[D]			
1,4-Dıfluorobenzene	0 0337	0 0300	112	80-120		
4-Bromofluorobenzene	0 0229	0 0300	76	80-120	**	

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755,

Project ID: Big Eddy Unit 162

Lab Batch #: 745812

Sample: 522536-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			D			
1,4-Dıfluorobenzene	0 0288	0 0300	96	80-120		
4-Bromofluorobenzene	0 0306	0 0300	102	80-120		

Lab Batch #: 745812

**Sample:** 522536-1-BLK / BLK

Batch: 1 Ma

Matrix: Solid

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Dıfluorobenzene	0 0340	0 0300	113	80-120			
4-Bromofluorobenzene	0 0233	0 0300	78	80-120	**		

Lab Batch #: 745812

**Sample:** 522536-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes	11	'	[D]				
1,4-Dıfluorobenzene	0 0295	0 0300	98	80-120			
4-Bromofluorobenzene	0 0314	0 0300	105	80-120			

Lab Batch #: 745795

Sample: 321733-002 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	114	100	114	70-135		
o-Terphenyl	60 7	50 0	121	70-135		

Lab Batch #: 745795

**Sample:** 321733-002 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes	'.'		[D]				
1-Chlorooctane	110	100	110	70-135			
o-Terphenyl	53 0	50 0	106	70-135			

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755,

**Project ID:** Big Eddy Unit 162

Lab Batch #: 745795

Sample: 321755-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount  B	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	91 7	100	92	70-135		
o-Terphenyl	44 0	50 0	88	70-135		

Lab Batch #: 745795

**Sample:** 321755-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	90 1	100	90	70-135			
o-Terphenyl	43 0	50 0	86	70-135			

Lab Batch #: 745795

Sample: 321755-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	114	100	114	70-135		
o-Terphenyl	53 4	50 0	107	70-135		

Lab Batch #: 745795

Sample: 321755-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89 8	100	90	70-135	,
o-Terphenyl	42 5	50 0	85	70-135	

Lab Batch #: 745795

Sample: 321755-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			D			
1-Chlorooctane	88 4	100	88	70-135		
o-Terphenyl	42 5	50 0	85	70-135		

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755,

Project ID: Big Eddy Unit 162

Lab Batch #: 745795

**Sample:** 522530-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
			[D]				
1-Chlorooctane	110	100	110	70-135	_		
o-Terphenyl	56 5	50 0	113	70-135			

Lab Batch #: 745795

**Sample:** 522530-1-BLK / BLK

Matrix: Solid Batch: 1

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount  B	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93 9	100	94	70-135	
o-Terphenyl	47 6	50 0	95	70-135	

Lab Batch #: 745795

Sample: 522530-1-BSD / BSD

Matrix: Solid Batch: 1

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	108	100	108	70-135		
o-Terphenyl	51 9	50 0	104	70-135		

Lab Batch #: 745966

Sample: 321755-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	87 0	100	87	70-135		
o-Terphenyl	45 3	50 0	91	70-135		

Lab Batch #: 745966

Sample: 321755-015 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	99 5	100	100	70-135		
o-Terphenyl	39 8	50 0	80	70-135		

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B
All results are based on MDL and validated for QC purposes

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755, Project ID: Big Eddy Unit 162

Lab Batch #: 745966 Sample: 321755-015 SD / MSD Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount  B	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	101	100	101	70-135	_	
o-Terphenyl	40 6	50 0	81	70-135		

Lab Batch #: 745966 Sample: 522620-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		, ,	[D]			
I-Chlorooctane	104	100	104	70-135		
o-Terphenyl	43 7	50 0	87	70-135		

Lab Batch #: 745966 Sample: 522620-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	89 1	100	89	70-135		
o-Terphenyl	49 1	50 0	98	70-135		

Lab Batch #: 745966 Sample: 522620-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg		SURROGATE RECOVERY STUDY					
TPH By SW8015 Mo	od Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane .	106	100	106	70-135			
o-Terphenyl	44 9	50 0	90	70-135			

Lab Batch #: 745970 Sample: 321755-006 / SMP Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	91 0	100	91	70-135		
o-Terphenyl	44 3	50 0	89	70-135		

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755,

Project ID: Big Eddy Unit 162

Lab Batch #: 745970

**Sample:** 321755-006 S / MS

1 Matrix: Soil Batch:

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount  B	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	110	100	110	70-135		
o-Terphenyl	51 0	50 0	102	70-135		

Lab Batch #: 745970

Sample: 321755-006 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	114	100	114	70-135		
o-Terphenyl	57 0	50 0	114	70-135		

Lab Batch #: 745970

Sample: 321755-007 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	96 0	100	96	70-135		
o-Terphenyl	46 8	50 0	94	70-135		

Lab Batch #: 745970

Sample: 321755-008 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	90 2	100	90	70-135	-	
o-Terphenyl	44 4	50 0	89	70-135		

Lab Batch #: 745970

Sample: 321755-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	99 1	100	99	70-135			
o-Terphenyl	47 2	50 0	94	70-135			

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755,

Project ID: Big Eddy Unit 162

Lab Batch #: 745970

Sample: 321755-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R  D	Control Limits %R	Flags	
1-Chlorooctane	90 0	100	90	70-135		
o-Terphenyl	43 8	50 0	88	70-135		

Lab Batch #: 745970

Sample: 321755-011 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes		'-'	[D]				
1-Chlorooctane	113	100	113	70-135			
o-Terphenyl	54 0	50 0	108	70-135			

Lab Batch #: 745970

Sample: 321755-012 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			D			
1-Chlorooctane	91 0	100	91	70-135		
o-Terphenyl	44 5	50 0	89	70-135		

Lab Batch #: 745970

Sample: 321755-013 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	90 8	100	91	70-135		
o-Terphenyl	45 2	50 0	90	70-135		

Lab Batch #: 745970

Sample: 321755-014 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes  1-Chlorooctane	97.1	100		70.125		
o-Terphenyl	87 1	50 0	87	70-135		

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: BEPCO

Work Orders: 321755, Project ID: Big Eddy Unit 162

Lab Batch #: 745970 Sample: 522625-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	108	100	108	70-135		
o-Terphenyl	51 2	50 0	102	70-135		

Lab Batch #: 745970 Sample: 522625-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found  A	True Amount  B	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93 4	100	93	70-135	
o-Terphenyl	47 4	50 0	95	70-135	

Lab Batch #: 745970 Sample: 522625-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg SURROGATE RECOVERY STUDY Amount True TPH By SW8015 Mod Found Amount Recovery Limits Flags [A]%R [B] %R [D]**Analytes** 1-Chlorooctane 106 100 106 70-135 o-Terphenyl 51 0 50 0 102 70-135

<sup>\*\*</sup> Surrogates outside limits, data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution Surrogate Recovery [D] = 100 \* A / B



# **Blank Spike Recovery**



**Project Name: BEPCO** 

Work Order #: 321755 Project ID: Big Eddy Unit 162

Lab Batch #: 745779Sample: 745779-1-BKSMatrix: SolidDate Analyzed: 01/07/2009Date Prepared: 01/07/2009Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1 BLANK/BLANK SPIKE RECOVERY STUDY

	Datell #.	DDAINK /	DEANK SI	IKE KEC	OVERT	31001
Anions by EPA 300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R  D	%R	
Chloride	ND	10 0	9 52	95	90-110	



#### **BS / BSD Recoveries**



Project Name: BEPCO

Work Order #: 321755 Analyst: ASA

**Date Prepared:** 01/07/2009

**Project ID:** Big Eddy Unit 162 **Date Analyzed:** 01/07/2009

Lab Batch ID: 745812

Sample: 522536-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg

	BLAN	K/BLANK S	SPIKE / B	BLANK S	PIKE DUPL	<b>ICATE</b>	RECOVE	ERY STUD	•Y	
ult	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	F

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		{B}	[C]	[D]	{E}	Result [F]	[G]			ĺ	1
Benzene	ND	0 1000	0 1064	106	0.1	0 1025	103	4	70-130	35	
Toluene	ND	0 1000	0 1008	101	0.1	0 0982	98	3	70-130	35	
Ethylbenzene	ND	0 1000	0 1044	104	0 1	0 1026	103	2	71-129	35	
m,p-Xylenes	ND	0 2000	0 2099	105	02	0 2073	104	1	70-135	35	
o-Xylene	ND	0 1000	0 0982	98	0.1	0 0984	98	0	71-133	35	

Analyst: ASA

**Date Prepared:** 01/20/2009

**Date Analyzed:** 01/20/2009

Lab Batch ID: 746996

Sample: 746996-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPL	JCATE I	RECOVE	ERY STUD	Y	
TPH by EPA 418.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik, Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
TPH, Total Petroleum Hydrocarbons	ND	2500	2350	94	2500	2460	98	5	65-135	35	

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100\*(C)/[B]Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes



#### **BS / BSD Recoveries**



Project Name: BEPCO

Work Order #: 321755

**Project ID:** Big Eddy Unit 162

Analyst: BHW

Date Prepared: 01/07/2009

**Date Analyzed:** 01/07/2009

Lab Batch ID: 745795

**Sample:** 522530-1-BKS **Batch #:** 1

Matrix: Solid

Units: mg/kg

#### BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ND	1000	924	92	1000	903	90	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	953	95	1000	934	93	2	70-135	35	

Analyst: BHW Date Prepared: 01/08/2009 Date Analyzed: 01/08/2009

Lab Batch ID: 745966 Sample: 522620-1-BKS Batch #: 1 Matrix: Solid

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Units: mg/kg TPH By SW8015 Mod Blank Spike Blank Blank Blank Blk. Spk Control Control Spike Dup. Sample Result Added Spike Spike Added Spike **RPD** Limits Limits Flag Result %R Duplicate %R %R %RPD [A]% [B] [C] [D]Result [F] [G] [E] **Analytes** C6-C12 Gasoline Range Hydrocarbons ND 1000 1060 106 70-135 35 1000 1060 106 0 C12-C28 Diesel Range Hydrocarbons ND 70-135 1000 1010 101 1000 1020 102 35

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100\*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]
All results are based on MDL and Validated for QC Purposes



#### **BS/BSD Recoveries**



Project Name: BEPCO

Work Order #: 321755

**Date Prepared:** 01/08/2009 Batch #: 1

Project ID: Big Eddy Unit 162 Date Analyzed: 01/08/2009

Analyst: BHW Lab Batch ID: 745970

Sample: 522625-1-BKS

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKÉ / I	BLANK S	PIKE DUPL	ICATE 1	RECOVE	ERY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result [A]		Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ND	1000	906	91	1000	890	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	943	94	1000	921	92	2	70-135	35	

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100\*(C)/[B]Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes



#### Form 3 - MS Recoveries

**Project Name: BEPCO** 



Work Order #: 321755

Lab Batch #: 745779 **Date Analyzed:** 01/07/2009

**Project ID:** Big Eddy Unit 162

**Date Prepared:** 01/07/2009

Analyst: LATCOR

QC-Sample ID: 321710-001 S Batch #: Matrix: Soil

Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	6920	2120	9430	118	80-120	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B elative Percent Difference [E] = 200\*(C-A)/(C+B) Il Results are based on MDL and Validated for QC Purposes





**Project Name: BEPCO** 

Work Order #: 321755

Project ID: Big Eddy Unit 162

Lab Batch ID: 746996

QC- Sample ID: 321755-015 S

Batch #:

Matrix: Soil

**Date Analyzed:** 01/20/2009

**Date Prepared:** 01/20/2009

Analyst: ASA

Reporting Units: mg/kg

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH by EPA 418.1	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
TPH, Total Petroleum Hydrocarbons	ND	2520	2310	92	2520	2310	92	0	65-135	35	

Lab Batch ID: 745795

QC- Sample ID: 321733-002 S

Batch #:

Matrix: Soil

Date Analyzed: 01/07/2009

Date Prepared: 01/07/2009

Analyst:

BHW

Reporting Units: mg/kg

Keporting Onts. mg/kg		N	IATRIX SPIK.	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1090	1030	94	1090	1000	92	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1090	1060	97	1090	1050	96	l	70-135	35	

Lab Batch ID: 745966

QC- Sample ID: 321755-015 S

Batch #:

Matrix: Soil

**Date Analyzed:** 01/08/2009

**Date Prepared:** 01/08/2009

Analyst: BHW

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1010	992	98	1010	1020	101	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1010	973	96	1010	1000	99	3	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



Date Analyzed: 01/08/2009

# Form 3 - MS / MSD Recoveries

**Project Name: BEPCO** 

Work Order #: 321755

Project ID: Big Eddy Unit 162

Lab Batch ID: 745970 QC- Sample ID: 321755-006 S

Matrix: Soil Batch #:

**Date Prepared:** 01/08/2009

Analyst: BHW

Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	-	Duplicate Spiked Sample	•	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1000	910	91	1000	941	94	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	975	98	1000	992	99	1	70-135	35	



## **Sample Duplicate Recovery**

Project Name: BEPCO

Work Order #: 321755

Lab Batch #: 745779

d: 01/07/2009 Date Prepared:

**Date Analyzed:** 01/07/2009 **QC- Sample ID:** 321710-001 D

Batch #:

01/07/2009

Project ID: Big Eddy Unit 162

Analyst: LATCOR

1 Matrix: Soil

Reporting Units: mg/kg	SAMPLE /	SAMPLE / SAMPLE DUPLICATE RECOVERY												
Anions by EPA 300  Analyte	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag									
Analyte		[B]												
Chloride	6920	6920	0	20										

Lab Batch #: 745747

Date Analyzed: 01/07/2009

**Date Prepared:** 01/07/2009

1

1

Analyst: BEV

QC- Sample ID: 321733-001 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE/SAMPLE DUPLICATE RECOVERY													
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag										
Analyte		[B]	}	!	}										
Percent Moisture	4 92	5 42	10	20											

Lab Batch #: 745803

**Date Analyzed:** 01/07/2009

**Date Prepared:** 01/07/2009

Analyst: WRU

**QC- Sample ID:** 321755-007 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE / SAMPLE DUPLICATE RECOVERY												
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag								
Analyte		121											
Percent Moisture	ND	ND	NC	20									

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Page 182

#### **Environmental Lab of Texas**

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
12500 West 1-20 Easts Phone 432-663-1800

Project Manager	Dehi Sport Smrh														_	F	rojes	ct Na	me _		35	PCC	<u>) - В</u>	ıg Ed	idy (	Jnit 1	62		
Company Name	Sport Environme ita	ıl Servi	es							_					_		P	тојес	t#_										
Company Address	502 N Big Spring St	re_													_		Pro	ject L	.oc _										
City/State/Zip	Midland Texas 797	c													_			PC	o#_										
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#### **Environmental Lab of Texas**

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone. 432-563-1800 Fax 432-563-1713

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Project Manager	Deta Sport Smith							_						_	P	rojec	t Nar	ne _		BE	PÇ	O - E	Big E	ddy	Unit 1	<u> 32</u>	
Company Name	Sport Environmental Service	es														P	tojac	* _									
Company Address	502 N Big Spring Stree													_		Pro;	ect L	<u>-</u> ∞									
City/State/Zip	Midland Texas 79701													_			PC	#_				_					
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Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client	Sout Chu	
Date/ Time	Wester 250	
Lab ID#	321755	
Initials _	Gilet	
	Sample Receipt Checklist	

	Sample Receipt	Officerist		
#1	Temperature of container/ cooler?	Yes	No	Client Initial
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	(Yes	No	1,600 1 100011
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont(/ Lid)
#9	Container label(s) legible and intact?	/Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes	No	
#11	Containers supplied by ELOT?	(Yes	No	
#12	Samples in proper container/ bottle?	(Yes)	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	(Yes)	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below
#18	All samples received within sufficient hold time?	(Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable

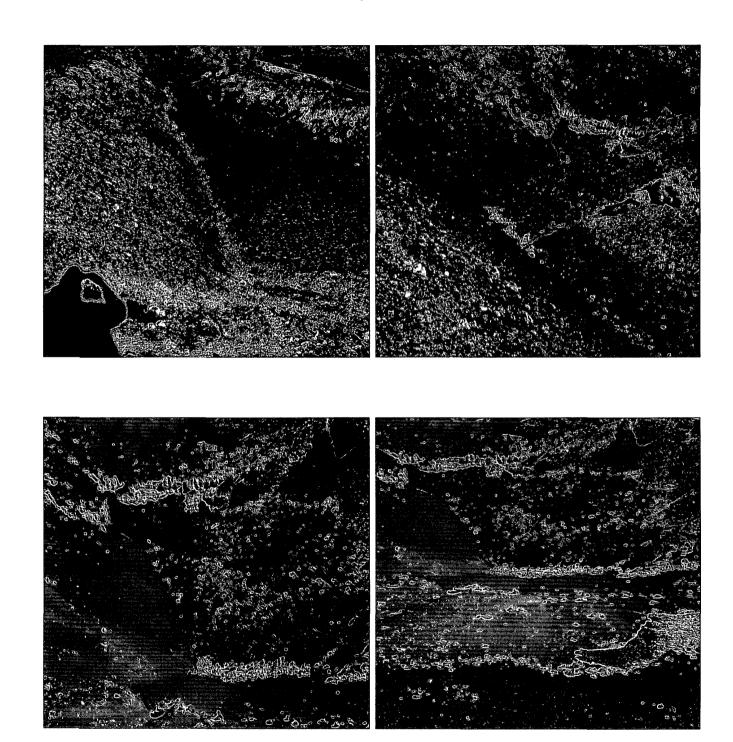
#### Variance Documentation

Contact		Contacted by	Date/ Time	
Regarding				
Corrective Action Taker	)			
Check all that Apply		See attached e-mail/ fax Client understands and would like to Cooling process had begun shortly at		

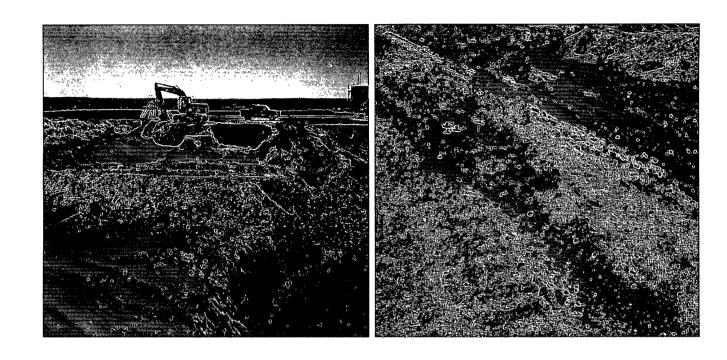
BOPCO, L.P.
Big Eddy Unit #162
Section 7, T-21-S, R-29-E
Eddy County, New Mexico

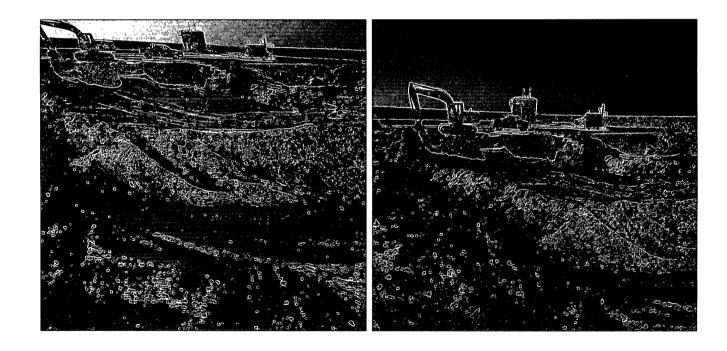
# SITE PHOTOGRAPHS TAKEN January 9, 2009 Big Eddy Unit #162

#### BOPCO, LP – Big Eddy Unit #162 Site Photographs taken January 9, 2009 (p. 1 of 3)



#### BOPCO, LP – Big Eddy Unit #162 Site Photographs taken January 9, 2009 (p. 2 of 3)





# BOPCO, LP – Big Eddy Unit #162 Site Photographs taken January 9, 2009 (p. 3 of 3)

